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Railways Telecommunications (RT); Global System for Mobile communications (GSM); Detailed requirements for GSM operation on Railways

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## Contents

Intelle	ectual Property Rights	4
Forew	vord	4
1	Scope	5
2 2.1 2.2	References Normative references Informative references	5
3	Abbreviations	5
4	CRs required for operation of GSM on Railways to be added to the normative references of EN 301 515	6
4.1 4.2	CRs applicable to the TSs already listed as normative references of EN 301 515 CRs applicable to TSs not yet listed as normative references of EN 301 515	6
Anne	x A (informative): Bibliography	15
Histor	ry	16

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4

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### Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Railway Telecommunications (RT).

### 1 Scope

The present document collects all the 3GPP Change Requests (CRs) required for operation of GSM for Railways. It complements EN 301 515 [1].

### 2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <a href="http://docbox.etsi.org/Reference">http://docbox.etsi.org/Reference</a>.

NOTE: While any hyperlinks included in this clause were valid at the time of publication ETSI cannot guarantee their long term validity.

#### 2.1 Normative references

The following referenced documents are necessary for the application of the present document.

[1] ETSI EN 301 515 (V2.3.0): "Global System for Mobile communication (GSM); Requirements for GSM operation on railways".

#### 2.2 Informative references

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

Not applicable.

### 3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

3GPP CR ASCI AT BSSAP CCWA DTMF FFN IMSI NCH OTDI	Third Generation Partnership Project Change Request Advanced Speech Call Items ATtention Base Station Subsystem Application Protocol Control of Call WAiting Dual-Tone Multi-Frequency Follow me Function Node International Mobile Subscriber Identity Notification CHannel Originator-To-Dispatcher Information
	e
DTMF	Dual-Tone Multi-Frequency
FFN	Follow me Function Node
IMSI	International Mobile Subscriber Identity
NCH	Notification CHannel
OTDI	Originator-To-Dispatcher Information
PCH	Paging CHannel
SMS	Short Message Service
SS	Supplementary Service
SSN	Sub-System Number
VGCS	Voice Group Call Services

# 4 CRs required for operation of GSM on Railways to be added to the normative references of EN 301 515

GSM on Railways is fully specified by all the GSM/3GPP TSs listed as normative references of EN 301 515 [1], clause 2.1, and by all the CRs listed in the present document.

This present clause 4 lists the CRs as well as a short description of each CR.

Table 1 contains the CRs applicable to the TSs already listed as normative references of EN 301 515 [1], while table 2 contains the CRs applicable to TSs not (yet) listed as normative references of EN 301 515 [1].

All the CRs listed here can be found as attachments to the present document.

NOTE: The 3GPP/SMG CR database is the authoritative repository of the status of CRs presented in SMG/3GPP groups. This database can be found at: <u>ftp://ftp.3gpp.org/Information/Databases/Change\_Request/.</u>

# 4.1 CRs applicable to the TSs already listed as normative references of EN 301 515

For each TS listed as a normative reference of EN 301 515 [1], table 1 lists the CRs necessary for GSM R operation. Where a newer version of the TS was produced from that listed in EN 301 515 [1], the table also identifies the latest applicable release 99 version of the TS.

The first and second columns (Index and Specification) of table 1 are identical to the table of clause 2.1 in EN 301 515 [1]. Where the specification has been renumbered in Releases post Rel-99, the corresponding specification for Rel-4 and later is also provided for information.

The third and fourth columns identify the required CRs and their purpose. Where the specification was updated in Release 99 to a later version of that which is listed in EN 301 515 [1], the latest Release 99 version is shown in column 3/4.

ŀ	dentification of the specifications as per clause 2.1 of EN 301 515 [1]	Applicable CRs and/or latest release 99 version	
Index	Specification	Applicable CR	Purpose
[1]	ETSI TS 100 590: "Digital cellular telecommunications system (Phase 2+) (GSM); Mobile-services Switching Centre - Base Station System (MSC - BSS) interface; Layer 3 specification (GSM 08.08 version 8.5.0 Release 1999)". <i>For information, becoming in Rel-4 and later:</i> ETSI TS 148 008: "Digital cellular telecommunications system (Phase 2+); Mobile Switching Centre - Base Station system (MSC-BSS) interface; Layer 3 specification (3GPP TS 48.008)".	ETSI TS 100 590: "Digital telecommunications syste services Switching Centre (MSC - BSS) interface; La (3GPP TS 08.08 version 8 CR 149 to 48.008 Rel-6 in GP-050260, approved at GP-23 CR 151r3 to 48.008 Rel-6 in GP-050855, approved at GP-24 CR 266 to 48.008 Rel-8 in GP-081196, approved at GP-39	cellular m (Phase 2+); Mobile- - Base Station System yer 3 specification
[2]	ETSI TS 100 607-1: "Digital cellular telecommunications system (Phase 2+) (GSM); Mobile Station (MS) conformance specification; Part 1: Conformance specification (GSM 11.10-1 version 8.2.0 Release 1999)".	ETSI TS 100 607-1: "Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification; Part 1: Conformance specification (3GPP TS 11.10-1 version 8.3.0 Release 1999)".	
[3]	ETSI TS 100 929: "Digital cellular telecommunications system (Phase 2+) (GSM); Security related network functions (GSM 03.20 version 8.0.0 Release 1999)".	ETSI TS 100 929: "Digital telecommunications syste related network functions (3GPP TS 03.20 version 8	cellular m (Phase 2+); Security-

## Table 1: CRs required for GSM R operation that are applicable to the TSs already listed as normative references of EN 301 515 [1]

l.	dentification of the specifications as per clause 2.1 of EN 301 515 [1]	Applicable CRs and/or latest release 99 version	
Index	Specification	Applicable CR	Purpose
[4]	ETSI TS 100 933: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Group Call Service (VGCS); Stage 2 (GSM 03.68 version 8.2.0 Release 1999)".	ETSI TS 100 933: "Digita telecommunications syste Group Call Service (VGC	l cellular em (Phase 2+); Voice
	For information, becoming in Rel-4 and later:	(3GPP TS 03.68 version	
	ETSI TS 143 068: "Digital cellular telecommunications system (Phase 2+); Voice Group Call Service (VGCS);	CR A023 to TS 03.68 Rel-4 in P-00-255,	Introduction of OTDI (Originator-To-
	Stage 2 (3GPP TS 43.068)".	approved at SMG#32	Dispatcher Information into VGCS)
		CR 007 to TS 43.068 Rel-5 in NP-020383,	ASCI VGCS call termination by
		approved at CN#17	dispatchers using DTMF
		CR 008r4 to TS 43.068 Rel-5 in NP-020675,	MS late entry notification
		approved at CN#18 CR 009r1 to TS 43.068	Correction of uplink
		Rel-4 in NP-030408, approved at CN#21	release management
		CR 013r1 to TS 43.068	Correction to MS Late
		Rel-5 in NP-030409, approved at CN#21	Entry description
		CR 014r2 to TS 43.068	Dispatcher signalled
		Rel-6 in NP-030410,	mute/unmute of talkers
		approved at CN#21	downlink and correction and update of incorrect implementation of
		00.400474.40.000	CR 03.68 A022
		CR A0017 to 43.068 Rel-4 in NP-040373,	Correction on notification for first talker
		approved at CN#25	of VGCS call Correction on notification for first
			talker of VGCS call Correction on notification for first talker of VGCS call
		CR A0029 to 43.068 Rel-4 in NP-050067, approved at CN#27	Correction of the conditions for establishment of a voice
		CR A0036 to 43.068	group call Inter-PLMN Group Call
		Rel-6 in NP-050076, approved at CN#27	notification for dispatchers
		CR 46r1 to 43.068 Rel-6 in CP-050361,	Clarification of the role of the anchor MSC.
		approved at CP-29	
		CR 68 to 43.068	Editorial corrections
		Rel-7 in CP-050549, approved at CP-30	(corrections of misspelling, grammatical
		CR 72r2 to 43.068 Rel-6 in CP-060113,	errors, etc.) Correction of muting/un- muting procedure
		approved at CP-31	0.
		CR 76r1 to 43.068 Rel-7 in CP-060122, approved at CP-31	Modification of conditions for VGCS call establishment
		CR 80r1 to 43.068 Rel-7 in CP-060122,	Corrections and clarifications to the
		approved at CP-31	procedures for releasing the calling service subscribers dedicated connection to the anchor
		CR 81r1 to 43.068	MSC Correction/ clarification
		Rel-7 in CP-060122, approved at CP-31	of voice group call termination procedures

Index         Applicable CR         Purpose           Add signaling flow for:         Add signaling flow for:         Add signaling flow for:           Rel-7 in CP-060270,         approved at CP-32         dispatcher originated           approved at CP-32         CR 81 to 43.068         Failure cases during           Rel-7 in CP-060276,         approved at CP-32         CR 9170 to 43.068         Failure cases during           Rel-7 in CP-060276,         approved at CP-32         CR 9170 to 43.068         Failure cases during           Rel-7 in CP-060276,         approved at CP-32         corraction of EsSAP         Rel-6 in CP-070137,           approved at CP-33         connections         CR 1311 to 43.068         Failure cases during           Rel-8 in CP-070376,         approved at CP-36         talking dispatcher, immediately           approved at CP-36         talking dispatcher, immediately         approved at CP-36         talking dispatcher, immediately           Rel-8 in CP-070376,         approved at CP-36         talking dispatcher, immediately         approved at CP-36         talking dispatcher, immediately           Rel-8 in CP-070376,         approved at CP-36         talking dispatcher, immediately         approved at CP-36         talking dispatcher, immediately           Rel-8 in CP-070376,         approved at CP-36         talking Correction so costalista	Identification of the specifications as per clause 2.1 of EN 301 515 [1]		Applicable CRs and/or latest release 99 version	
<ul> <li>(5) ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 vrsion 42 or 75.</li> <li>(6) ETSI TS 110 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 vrsion 42 or 75.</li> <li>(7) ETSI TS 143.068; "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 vrsion 42 or 75.</li> <li>(7) ETSI TS 143.068; "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 vrsion 42 or 75.</li> <li>(7) ETSI TS 143.068; "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 vrsion 42 or 75.</li> <li>(7) ETSI TS 143.069; "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 vrsion 42 or 75.</li> <li>(7) ETSI TS 143.069; "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 vrsion 82.07 erecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 vrsion 82.07 erecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 vrsion 82.07 erecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 vrsion 82.07 erecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 vrsion 82.07 erecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 vrsion 82.07 erecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 vrsion 82.07 erecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 vrsion 82.07 erecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 vrsion 82.07 erecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 vrsion 82.07 erecommunications system (Phase 2+); Voice Br</li></ul>	Index		Applicable CR	Purpose
<ul> <li>[5] ETSI TS 100 934; "Digital cellular telecommunications system (Phase 2+) (GGM), Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 '''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 '''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 '''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 '''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 '''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 '''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 '''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''''''') Violes Braadcast Service (VBS); Stage 2 (GSM 03/69 ''''''''''''''''''''''''''''''''''''</li></ul>		•		
<ul> <li>ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (SGS): Stage 2 (3GPP TS 43.068)</li> <li>FTSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (SGS): Stage 2 (3GPP TS 43.068)</li> <li>FTSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (SGS): Stage 2 (3GPP TS 43.068)</li> <li>FTSI TS 100 934: "Digital cellular telecommunications system (Phase 2+): Voice Broadcast service (VES); Stage 2 (3GPP TS 43.069)".</li> <li>FTSI TS 100 934: "Digital cellular telecommunications system (Phase 2+): Voice Broadcast service (VES); Stage 2 (3GPP TS 43.069)".</li> <li>FTSI TS 43.069)".</li> </ul>				
<ul> <li>ETSI TS 100 934: "Digital cellular telecommunications system (Phase 24) (GSM); Voice Broadcast Service (VBS); Stage 2 (GSP TS 43.069)."</li> <li>ETSI TS 100 934: "Digital cellular telecommunications system (Phase 24) (GSM); Voice Broadcast Service (VBS); Stage 2 (GSP TS 43.069)."</li> <li>ETSI TS 100 934: "Digital cellular telecommunications system (Phase 24) (GSM); Voice Broadcast Service (VBS); Stage 2 (GSP TS 43.069)."</li> <li>ETSI TS 100 934: "Digital cellular telecommunications system (Phase 24) (GSM); Voice Broadcast Service (VBS); Stage 2 (GSP TS 43.069)."</li> <li>ETSI TS 100 934: "Digital cellular telecommunications system (Phase 24) (GSM); Voice Broadcast Service (VBS); Stage 2 (GSP TS 43.069)."</li> </ul>				
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<ul> <li>[5] ETSI TS 10 0.94: "Digital cellular telecommunications system (Phase 2+): Voice Broadcast service (VBS); Stage 2 (GSM 0.58 version 8.2.0). Rel-4 and Rel-7 in CP-030136 (CR 147r1 to 43.068 Rel- 7 in CP-070374, production of Derson 2.2.0, and the communications system (Phase 2+): Voice Broadcast service (VBS); Stage 2 (GSM 0.58 version 8.2.0). Rel-4 and Rel-7 in CP-030136 (CR 147r1 to 43.068 Rel- 8 in CP-070374, production of communications system (Phase 2+): Voice Broadcast service (VBS); Stage 2 (GSM 0.58 version 8.2.0). Rel-4 and Rel-7 in CP-030136 (CR 148 to 43.068 Rel-7 in CP-030136 (CR 148 to 43.068 Rel-7 in CP-030136 (CR 148 to 43.068 Rel-7 in CP-030129, and the to time 0.0045/RR-10801374).</li> <li>[5] ETSI TS 10 0.934: "Digital cellular telecommunications system (Phase 2+): Voice Broadcast service (VBS); Stage 2 (GSM 0.58 version 8.2.0). Rel-64 in CP-03036 (CR 148 to 43.068 Rel-7 in CP-030136 (CR 148 to 43.068 Rel-7 in R-R-8 and Rel-8 in CP-030136 (CR 148 to 43.068 Rel-7 in R-R-8 and Rel-8 in CP-030336 (CR 150 to 75 33.069 (CR 150 to 75 33.06</li></ul>				
<ul> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 0.369)".</li> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 0.369)".</li> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 0.369)".</li> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 0.369)".</li> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 0.369)".</li> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 0.369)".</li> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 0.369)".</li> <li>[6] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 0.369)".</li> <li>[7] CR 141 ID 243.068 Rel- Carritoni of TDI Rel-4 in P-0.0255, approved at CP-30</li> <li>[8] CR 101 ID TS 43.069].</li> <li>[9] CR 104 104 105 30.69].</li> <li>[9] CR 104 104 104 105 105 105 104 104 104 105 105 105 104 104 104 105 105 105 104 104 104 105 105 105 104 104 104 105 105 104 104 104 104 105 105 104 104 104 105 105 104 104 104 105 105 104 104 104 105 104 104 104 104 104 104 104 104 104 104</li></ul>				Eailure cases during
<ul> <li>approved at CP-33 establishment</li> <li>CR 128 to 43.068</li> <li>Rel-6 in CP-070131, approved at CP-35</li> <li>CR 131 to 143.068</li> <li>CR 131 to 143.068</li> <li>CR 131 to 143.068</li> <li>CR 133 to 43.068</li> <li>Definition of BSSAP</li> <li>Rel-8 in CP-070371, approved at CP-36</li> <li>CR 141 to 43.068</li> <li>Cornections</li> <li>CR 141 to 43.068</li> <li>Cornections of the requirement of sending approved at CP-37</li> <li>MSC</li> <li>CR 141 to 43.068</li> <li>Clarification of the requirement of sending approved at CP-39</li> <li>guptoved at CP-39</li></ul>				
<ul> <li>CR 128 to 43.068</li> <li>Belnitico rd ESSAP</li> <li>Bilent (Fe-)ioning</li> <li>CR 131 to 43.068</li> <li>Belnitico rd ESSAP</li> <li>Belnin CP-08013</li></ul>				
<ul> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (Cash 21 (Cash 23) (Cash 23</li></ul>				
<ul> <li>FTSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (CSM); Voice Broadcast service (VBS); Stage 2 (CSM); Voice Broadcast Servic</li></ul>				
<ul> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (GSM): Voice Broadcast Service (VBS); Stage 2 (GSP) TS 43.069)".</li> <li>[6] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (Vice Broadcast Service (VBS); Stage 2 (GSP) TS 43.069)".</li> <li>[6] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (Vice Broadcast Service (VBS); Stage 2 (GSP) TS 43.069)".</li> <li>[6] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (Vice Broadcast Service (VBS); Stage 2 (GSP) TS 43.069)".</li> </ul>				•
<ul> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+). Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[6] ETSI TS 140 934: "Digital cellular telecommunications system (Phase 2+). Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[6] ETSI TS 140 934: "Digital cellular telecommunications system (Phase 2+). Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[6] ETSI TS 140 934: "Digital cellular telecommunications system (Phase 2+). Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[6] ETSI TS 140 934: "Digital cellular telecommunications system (Phase 2+). Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[7] CR 148 to 43.068 (Criftication of TDR 03.69 (Criftication of TDR 04.69 (</li></ul>				connections
<ul> <li>ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 036 version 8.2) Rel-8 and Later: ETSI TS 143 069 3)".</li> <li>ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 036 version 8.2) Rel-8 and Later: ETSI TS 143 069 3)".</li> <li>ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 036 version 8.2) Rel-8 and Later: ETSI TS 143 069 3)".</li> <li>ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 036 version 8.2) Rel-8 and Later: ETSI TS 143 069)".</li> <li>ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 036 version 8.2) Rel-8 and Later: ETSI TS 143 069)".</li> <li>ETSI TS 140 069)</li> <li>ETSI TS 140 069)</li> <li>ETSI TS 140 069)</li></ul>			CR 131r1 to 43.068 Rel-	Silent (re-)joining
<ul> <li>ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>For information, becoming in Rel-4 and later:</li> <li>ETSI TS 143 069: "Digital telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>CR 045 version 8.2.0 Release 1999)".</li> <li>CR 06 to TS 03.69</li> <li>CR 150 to TS 03.69</li> <li>CR 1450 to TS 03.69</li> <li>CR 150 to TS 03.69</li> <li>CR 150 to TS 03.69</li> <li>CR 150 to TS 03.69</li> <li>CR 06 to TS 03.69</li> <li>CR 06 to TS 03.69</li> <li>CR 06 to TS 03.69</li> <li>CR 07 to TS 43.069</li> <li>Correction to MS Late Rel-5 in NP-02036, approved at CN#21</li> <li>CR 000 to TS 43.069</li> <li>Correction to MS Late Rel-5 in NP-02036, approved at CN#21</li> <li>CR 000 to TS 43.069</li> <li>Correction to MS Late Rel-5 in NP-02036, approved at CN#21</li> <li>CR 000 to TS 43.069</li> <li>Correction to MS Late Rel-5 in NP-02036, approved at CN#21</li> <li>CR 000 to TS 43.069</li> <li>Correction to MS Late Rel-5 in NP-02036, approved at CN#21</li> <li>CR 000 to TS 43.069</li> <li>Correction to MS Late Rel-5 in NP-02036, approved at CN#21</li> <li>CR 000 to TS 43.069</li> <li>Co</li></ul>			7 in CP-070376,	dispatcher, immediately
<ul> <li>ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>For information, becoming in Rel-4 and later:</li> <li>ETSI TS 143 069: "Digital telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>CR 045 version 8.2.0 Release 1999)".</li> <li>CR 06 to TS 03.69</li> <li>CR 150 to TS 03.69</li> <li>CR 1450 to TS 03.69</li> <li>CR 150 to TS 03.69</li> <li>CR 150 to TS 03.69</li> <li>CR 150 to TS 03.69</li> <li>CR 06 to TS 03.69</li> <li>CR 06 to TS 03.69</li> <li>CR 06 to TS 03.69</li> <li>CR 07 to TS 43.069</li> <li>Correction to MS Late Rel-5 in NP-02036, approved at CN#21</li> <li>CR 000 to TS 43.069</li> <li>Correction to MS Late Rel-5 in NP-02036, approved at CN#21</li> <li>CR 000 to TS 43.069</li> <li>Correction to MS Late Rel-5 in NP-02036, approved at CN#21</li> <li>CR 000 to TS 43.069</li> <li>Correction to MS Late Rel-5 in NP-02036, approved at CN#21</li> <li>CR 000 to TS 43.069</li> <li>Correction to MS Late Rel-5 in NP-02036, approved at CN#21</li> <li>CR 000 to TS 43.069</li> <li>Correction to MS Late Rel-5 in NP-02036, approved at CN#21</li> <li>CR 000 to TS 43.069</li> <li>Co</li></ul>			approved at CP-36	talking dispatcher
<ul> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (GSM) (26S call controlling connections or start and sporoved at CP-33 uplic taction to process conditions for start and sporoved at CP-33 uplic termination due to time reduce the conditional of the conditex conditional of the conditional of the conditional of the c</li></ul>				
<ul> <li>ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 03.69 vroice Broadcast service (VBS); Stage 2 (GZ 04 vroice Broadcast service (VBS); Stage 2 (GZ</li></ul>				
<ul> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[5] ETSI TS 130 0934: "Digital cellular telecommunications system (Phase 2+) Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[5] ETSI TS 130 0934: "Digital cellular telecommunications system (Phase 2+) Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[6] ETSI TS 130 0934: "Digital cellular telecommunications system (Phase 2+) Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[7] ETSI TS 130 0934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GCP TS 43.069)".</li> <li>[8] CR 006 to TS 43.069 Rel-4 and later:</li> <li>[9] CR 006 to TS 43.069 Rel-4 and later.</li> <li>[9] CR 006 to TS 43.069 Rel-4 and later.</li> <li>[9] CR 006 to TS 43.069 Rel-4 and later.</li> <li>[9] CR 006 to TS 43.069 Rel-4 and later.</li> <li>[9] CR 006 to TS 43.069 Rel-4 and later.</li> <li>[9] CR 006 to TS 43.069 Rel-4 and later.</li> <li>[9] CR 006 to TS 43.069 Rel-4 and later.</li> <li>[9] CR 006 to TS 43.069 Rel-4 and later.</li> <li>[9] CR 006 to TS 43.069 Rel-4 and later.</li> <li>[9] CR 0074 to TS 43.069 Rel-4 and later.</li> <li>[9] CR 0074 to TS 43.069 Rel-4 and later.</li> <li>[9] CR 0074 to TS 43.069 Rel-4 and later.</li> <li>[9] CR 0074 to TS 43.069 Rel-4 and later.</li> <li>[9] CR 0074 to TS 43.069 Rel-4 and later.</li> <li>[9] CR 0074 to TS 43.069 Rel-4 and later.</li> <li>[9] CR 0074 to TS 43.069 Rel-4 and later.</li> <li>[9] CR 0074 to TS 43.069 Rel-4 and later.</li> <li>[9] CR 0074 to TS 43.069 Rel-4 and later.</li> <li>[9</li></ul>				
<ul> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (SGR) voice Broadcast Service (VBS); Stage 2 (GSPP TS 43.069)".</li> <li>[6] ETSI TS 13 069.".</li> <li>[7] TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSPP TS 43.069)".</li> <li>[6] ETSI TS 13 069.".</li> <li>[7] CR 147 to 15 3.068 Rel- approved at CP-39</li> <li>[8] CR 147 to 15 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSP TS 43.069)".</li> <li>[6] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSP TS 43.069)".</li> <li>[7] CR 148 to 143.068</li> <li>[8] CR 148 to 15 3.068</li> <li>[9] CR 148 to 15 3.068</li> <li>[9] CR 148 to 143.068</li> <li>[9] CR 148 to 143.068</li> <li>[10] CR 148 to 143.068</li> <li>[10] CR 148 to 143.068</li> <li>[10] CR 148 to 143.068</li> <li>[11] CR 148 to 141</li> <li>[12] CR 148 to 143.068</li> <li>[13] CR 148 to 149.068</li> <li>[14] CP-080136 (C1-09)</li> <li>[15] CR 148 to 143.068</li> <li>[16] CR 148 to 143.068</li> <li>[16] CR 148 to 143.068</li> <li>[16] CR 148 to 143.068</li> <li>[17] CR 148 to 143.068</li> <li>[18] CR 148 to 149.068</li> <li>[18] CR 148 to 149.069</li> <li>[19] CR 148 to 149.0</li></ul>				connections
[5]       ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (GBM): Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 vrsion 82.0 Release 1999)".       ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (GBM): Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 vrsion 82.0 Release 1999)".       ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 03.69 vrsion 32.0 Release 1999)".       ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 03.69 vrsion 32.0 Release 1999)".         [5]       ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 05.60 vrsion 32.0 Release 1999)".       ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 1 (GSM 03.69 vrsion 32.0 Release 1999)".         [6]       ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 05.60 vrsion 30.69 vrsion 30.69 vrsion 30.60 vrsion 30.69 vrsion 30.60 vrsion 30				
<ul> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[5] FO Information, becoming in Rel-4 and later:</li> <li>ETSI TS 143.069.".</li> <li>[6] GR 416 in CP-080361, approved at CP-39 uplink access (CR 148 to 43.068 Clarification of call termination due to time termination due to time termination due to time approved at CP-40 store and the communications system (Phase 2+) (CSM); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[7] FO Information, becoming in Rel-4 and later:</li> <li>ETSI TS 143.069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GCP TS 03.69 version 8.2.0 Release 1999)".</li> <li>[6] GR A016 to TS 03.69 (Introduction of OTDI Rel-4 in P-020367, approved at CN#17 dispatchers using DTM CR 0074 to TS 43.069 MS late entry notificatic Rel-1 in P-020376, approved at CN#17 CR 0076 to TS 43.069 Rel-5 in NP-020373, notification procedures approved at CN#21 CR A0012 to 73.069 Rel-4 in P-043373, notification procedures approved at CN#21 CR A0023 to 43.069 Rel-6 in NP-043373, notification procedures approved at CN#21 CR A0023 to 43.069 Rel-6 in NP-043374, notification for OTDI Rel-4 in NP-043374, notification for OTDI CR 0074 to TS 43.069 Rel-6 in NP-043374, notification for OTDI CR 0074 to TS 43.069 Rel-6 in NP-043374, notification for OTDI CR 007676, approved at CN#21 CR A0021 to 43.069 Rel-6 in NP-043374, notification for OTDI CR 007766, approved at CN#21 CR A0021 to 43.069 Rel-6 in NP-043374, notification for OTDI CR 007766, approved at CN#21 CR A0022 to 43.069 Rel-6 in NP-043374, notification for OTDI CR 007766, approved at CN#21 CR A0022 to 43.069 Rel-6 in NP-043374, nottificatin for OTDI CR 007</li></ul>				
<ul> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); (GSM); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[5] ETSI TS 143.069)".</li> <li>[5] ETSI TS 143.069)".</li> <li>[6] ETSI TS 43.069)".</li> <li>[7] TS 43.069)".</li> <li>[7] TS 43.069)".</li> <li>[8] TSI S 43.069)".</li> <li>[8] TSI S 43.069)".</li> <li>[9] TS 43.069)".</li> </ul>				
<ul> <li>approved at CP-39</li> <li>SMS to non established group calls</li> <li>CR 147r1 to 43.068 Rel- 8 in CP-080129, uplink access</li> <li>CR 150 to 43.068</li> <li>Clarification of the channel to be used for approved at CP-39</li> <li>uplink access</li> <li>CR 150 to 43.068</li> <li>Clarification of conditions for start and approved at CP-40</li> <li>stop of voice inactivity timer</li> <li>CR 148 to 43.068</li> <li>Warning tone for call termination due to time 080453/RT-08010fr), approved at CP-39</li> <li>timer</li> <li>ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>For information, becoming in Rel-4 and later:</li> <li>ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (3GPP TS 43.069)".</li> <li>CR 4016 to TS 03.69</li> <li>Rel-4 in NP-00.255, approved at CN#17</li> <li>dispatcher Information by approved at CN#17</li> <li>dispatchers using DTM CR 007ft to TS 43.069</li> <li>Rel-5 in NP-020676, approved at CN#18</li> <li>CR 0007to TS 43.069</li> <li>CR 1001 to TS 43.069</li> <li>CR 1001 to TS 43.069</li> <li>Rel-5 in NP-020676, approved at CN#17</li> <li>CR A0012 to 43.069</li> <li>Correction to MS Late entry notification procedures approved at CN#21</li> <li>CR A0012 to 43.069</li> <li>Correction rom notification procedures approved at CN#21</li> <li>CR A0023 to 43.069</li> <li>Inter-PLIMN Broadcast Rel-5 in NP-02076, Call notification for CHBS CS CR A0023 to 43.069</li> <li>Rel-6 in NP-05076, Call notification for CHBS CS CR A0023 to 43.069</li> </ul>				
<ul> <li>group calls</li> <li>CR 147r1 to 43.068 Rel- Clarification of the sin CP-080129, channel to be used for approved at CP-39 uplink access</li> <li>CR 150 to 43.068 Rel-8 in CP-080361, conditions for start and approved at CP-40 stop of voice inactivity timer</li> <li>ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (3GPP TS 43.069)".</li> <li>ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (3GPP TS 43.069)".</li> <li>CR 0016 to TS 03.069 Rel-4 in P-00-255. (Originator-To- approved at CM#17 CR 0016 to TS 43.069 Rel-5 in NP-020383, approved at CM#17 CR 0010r1 to TS 43.069 Rel-5 in NP-020383, approved at CM#18 CR 010r1 to TS 43.069 Rel-5 in NP-020373, approved at CM#18 CR 010r1 to TS 43.069 Rel-4 in NP-040373, approved at CM#21 CR 0002 to 43.069 Rel-4 in NP-040373, approved at CM#21 CR 0002 to 43.069 Rel-6 in NP-050076, Call notification procedures for Originator of VBS cc</li> </ul>				
<ul> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[6] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[7] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[8] CR 016 to TS 03.69 (Originator-To-approved at SMC#32 (GSPP TS 43.069)".</li> <li>[9] CR 006 to TS 43.069 (Creation of OTDI CR 007r4 to TS 43.069 (Creation to MS Late entry notification by approved at CN#18 (CR 0101 to TS 43.069 (Creation to MS Late Entry notification papproved at CN#18 (CR 0101 to TS 43.069 (Creation to MS Late Entry notification papproved at CN#21 (CR A0012 to 43.069 (Creation to MS Late Entry description approved at CN#21 (CR A0012 to 43.069 (Creation to MS Late Entry description approved at CN#21 (CR A0012 to 43.069 (Creation to MS Late Entry description approved at CN#21 (CR A0012 to 43.069 (Creation to MS Late Entry description approved at CN#21 (CR A0012 to 43.069 (Creation to MS Late Entry description approved at CN#23 (CR A0023 to 43.069 (Creation to MS Late Entry description approved at CN#25 (CR A0023 to 43.069 (Creation to MS Late Entry description approved at CN#25 (CR A0023 to 43.069 (Creation to MS Late Entry description approved at CN#25 (CR A0023 to 43.069 (Creation to TS CR A0023 to 43.</li></ul>			approved at CP-39	SMS to non established group calls
<ul> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[5] ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[6] ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[7] ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[6] ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[7] ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSP TS 43.069)".</li> <li>[8] CR 006 to TS 43.069 Mission of OTDI (CR 007r4 to TS 43.069 Rel-5 in NP-020376, approved at CN#17 dispatchers using DTM CR 0017r1 to TS 43.069 Rel-5 in NP-020676, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-020076, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-020076, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-030409, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-030409, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-030409, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-030409, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-030409, approved at CN#18 CR 0007r4 to TS 43.069 Rel-5 in NP-030409, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-030409, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-030409, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-030409, approved at CN#10 CR 0007r4 to TS 43.069 Rel-5 in NP-030409, approved at CN#10 CR 0007r4 to TS 43.069 Rel-5 in NP-030409, approved at CN#10 CR 0007r4 to TS 43.069 Rel-6 in NP-050076, Call notification fo</li></ul>			CR 147r1 to 43.068 Rel-	
<ul> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[5] ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[6] ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[7] ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[6] ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[7] ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSP TS 43.069)".</li> <li>[8] CR 006 to TS 43.069 Mission of OTDI (CR 007r4 to TS 43.069 Rel-5 in NP-020376, approved at CN#17 dispatchers using DTM CR 0017r1 to TS 43.069 Rel-5 in NP-020676, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-020076, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-020076, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-030409, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-030409, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-030409, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-030409, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-030409, approved at CN#18 CR 0007r4 to TS 43.069 Rel-5 in NP-030409, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-030409, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-030409, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-030409, approved at CN#10 CR 0007r4 to TS 43.069 Rel-5 in NP-030409, approved at CN#10 CR 0007r4 to TS 43.069 Rel-5 in NP-030409, approved at CN#10 CR 0007r4 to TS 43.069 Rel-6 in NP-050076, Call notification fo</li></ul>			8 in CP-080129,	channel to be used for
<ul> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[5] ETSI TS 140 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>[6] ETSI TS 143.069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (3GPP TS 03.60 version 8.2.0 Release 1999)".</li> <li>[7] ETSI TS 143.069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (3GPP TS 03.60 version 8.2.0 Release 1999)".</li> <li>[8] CR 0106 to TS 03.69 [Introduction of OTDI (Originator-To-Dispatcher Information into VBS)</li> <li>[9] CR 006 to TS 43.069 [Introduction of VBS call termination by approved at CN#17 dispatchers using DTM CR 00774 to TS 43.069 Rel-5 in NP-020383, approved at CN#18 [CR 01071 to TS 43.069 Rel-5 in NP-030409, approved at CN#12]</li> <li>[10] CR 0021 to 43.069 [Correction on notification procedures approved at CN#21 CR 403.069 [Inter-PLMN Broadcast Rel-6 in NP-050076, Call notification for dVBS call termination for dVBS call termination procedures for Originator of VBS call termination procedures for Originator of VBS call termination for dVBS call termination procedures for Originator of VBS call termination for dVBS call the termination for dVBS call to the termination for dVBS call termination for dVBS call te</li></ul>				
Rel-8 in CP-080361, approved at CP-40conditions for start and stop of voice inactivity timer[5]ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GGPP TS 43.069)".Introduction of OTDI (Originator To- approved at SMG#32[3GPP TS 43.069)".Namina (Samina (Sam				
[5]         ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".         ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".         ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".         ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSP TS 03.69 (Originator-To-C)); (3GPP TS 43.069)".         Introduction of OTDI (CR 04016 to TS 03.69 (Originator-To-C)); (0)           (3GPP TS 43.069)".         CR 006 to TS 43.069 (CR 006 to TS 43.069); (Originator-To-C)); (0)         Introduction of OTDI (CR 006 to TS 43.069); (Dispatcher Information into VBS); (CR 006 to TS 43.069); (CR 010r1 to TS 43.069); (Creation to MS Late Entry description); (CR 00012 to 43.069); (Creation to MS Late Entry description); (CR 00012 to 43.069); (Creation to MS Late Entry description); (CR 00012 to 43.069); (Creation to MS Late Entry description); (CR 00012 to 43.069); (Creation to TR); (CR 00012 to 43.069); (Creation to TS 03.069); (CR 00012 to 43.069); (Creation to TS 03.069); (CR 00012 to 43.069); (Creation to TS 03.069); (CR 00012 to 43.069); (CR 00012 to 43.069); (Creation to TS 03.069); (CR 00012 to 43.069); (CR 00012 to				
[5]       ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".       ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".       ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".       ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".       ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSP TS 03.69 Version 8.5.0 Release 1999)".       Introduction of OTDI Rel-4 and later:         (3GPP TS 43.069)".       ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GR 006 to TS 03.69 Rel-4 in P-00-255, QOriginator-To-Dispatcher Information into VBS)       Introduction of OTDI Rel-4 in VP-020383, termination by approved at CN#17 dispatchers using DTM CR 007r4 to TS 43.069 Rel-5 in NP-020476, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-030409, approved at CN#18 CR 010r1 to TS 43.069 Rel-5 in NP-030409, approved at CN#21       Crrection on notification procedures for Originator of VBS cr         (CR A0012 to 43.069 Rel-4 in NP-040373, approved at CN#25       Correction on notification procedures for Originator of VBS cr       Creation of NB Care CR A0023 to 43.069 Rel-6 in NP-050076, Call notification for Call notif				
[5]       ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".       ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".       ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSP TS 03.69 (Originator-To-giginator-To-giginator-To-giginator-To-giginator-To-giginator-To-gistem (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GOEP TS 43.069)".       Introduction of OTDI (Originator-To-gigigiginator-To-giginator-To-gigigiginator-To-giginator-To				timer
[5]       ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".       ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".       ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".       ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (GSP TS 03.69 (Originator-To-U)); (GR 4016 to TS 03.69 (Originator-To-D)); (Originator-To-D) (Originator-To-D); (GR 006 to TS 43.069 (Rel-4 in P-00-255, approved at SMG#32)       Introduction of OTDI (Originator-To-D) (Originator-To-D); (Origin				
approved at CP-39time[5]ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSPP TS 03.69 version 8.5.0 Release 1999)".ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (3GPP TS 43.069)".Introduction of OTDI (Originator-To- approved at SMG#32(GR 006 to TS 43.069)".CR 006 to TS 43.069 Rel-5 in NP-020383, termination by approved at CN#17Dispatcher Information into VBS)CR 007r4 to TS 43.069 Rel-5 in NP-020676, approved at CN#18Correction to MS Late Entry description approved at CN#21CR A012 to 43.069 Rel-4 in NP-030409, approved at CN#25 CR A0012 to 43.069Correction to MS Late Entry description Approved at CN#25 CR A0012 to 43.069				
<ul> <li>[5] ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".</li> <li>For information, becoming in Rel-4 and later:</li> <li>ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (3GPP TS 43.069)".</li> <li>CR A016 to TS 03.69 (Originator-To-Dispatcher Information into VBS)</li> <li>CR 006 to TS 43.069 ASCI VBS call termination by approved at CN#17 dispatchers using DTM CR 007r4 to TS 43.069 Rel-5 in NP-020876, approved at CN#18</li> <li>CR 010r1 to TS 43.069 Correction to MS Late Rel-5 in NP-030409, approved at CN#18</li> <li>CR 010r1 to TS 43.069 Correction to MS Late Rel-5 in NP-030409, approved at CN#21</li> <li>CR A0012 to 43.069 Correction on notification procedures approved at CN#21</li> <li>CR A0023 to 43.069 Rel-6 in NP-050076, Call notification for Call notification for</li> </ul>			080453/RT-08010r1),	out of voice inactivity
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For information, becoming in Rel-4 and later:ETSI TS 143 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast service (VBS); Stage 2 (3GPP TS 43.069)".Introduction of OTDI (Originator-To- approved at SMG#32(3GPP TS 43.069)".CR 006 to TS 43.069 Rel-5 in NP-020383, approved at CN#17ASCI VBS call termination by dispatchers using DTM CR 007r4 to TS 43.069 Rel-5 in NP-020676, approved at CN#18MS late entry notification Entry descriptionCR 010r1 to TS 43.069 Rel-5 in NP-030409, approved at CN#21Correction to MS Late Entry descriptionCR A0012 to 43.069 Rel-4 in NP-040373, approved at CN#25Correction on notification procedures for Originator of VBS ca CR A0023 to 43.069 Rel-6 in NP-050076,		system (Phase 2+) (GSM); Voice Broadcast Service (VBS);		
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Specification	Applicable CR           CR 29r1 to 43.069 Rel-7           in CP-060162, approved           at CP-31           CR 77r2 to 43.069           Rel-7 in CP-060126,           approved at CP-31           CR 79 to 43.069           Rel-7 in CP-060276,           approved at CP-32           CR 81r1 to 43.069           Rel-7 in CP-060276,           approved at CP-32           CR 81r1 to 43.069           Rel-7 in CP-060276,           approved at CP-32           CR 82 to 43.069	Purpose Correction/ clarification of voice broadcast call release procedures Modification of conditions for VBS call establishment Add signalling flow for a dispatcher originated VBS Including IMSI in Send_Group_Call_End_ Signal message for VBS
	in CP-060162, approved at CP-31 CR 77r2 to 43.069 Rel-7 in CP-060126, approved at CP-31 CR 79 to 43.069 Rel-7 in CP-060276, approved at CP-32 CR 81r1 to 43.069 Rel-7 in CP-060276, approved at CP-32	of voice broadcast call release procedures Modification of conditions for VBS call establishment Add signalling flow for a dispatcher originated VBS Including IMSI in Send_Group_Call_End_
	at CP-31 CR 77r2 to 43.069 Rel-7 in CP-060126, approved at CP-31 CR 79 to 43.069 Rel-7 in CP-060276, approved at CP-32 CR 81r1 to 43.069 Rel-7 in CP-060276, approved at CP-32	release procedures Modification of conditions for VBS call establishment Add signalling flow for a dispatcher originated VBS Including IMSI in Send_Group_Call_End_
	CR 77r2 to 43.069 Rel-7 in CP-060126, approved at CP-31 CR 79 to 43.069 Rel-7 in CP-060276, approved at CP-32 CR 81r1 to 43.069 Rel-7 in CP-060276, approved at CP-32	Modification of conditions for VBS call establishment Add signalling flow for a dispatcher originated VBS Including IMSI in Send_Group_Call_End_
	Rel-7 in CP-060126, approved at CP-31 CR 79 to 43.069 Rel-7 in CP-060276, approved at CP-32 CR 81r1 to 43.069 Rel-7 in CP-060276, approved at CP-32	conditions for VBS call establishment Add signalling flow for a dispatcher originated VBS Including IMSI in Send_Group_Call_End_
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	Rel-7 in CP-060276, approved at CP-32 CR 81r1 to 43.069 Rel-7 in CP-060276, approved at CP-32	dispatcher originated VBS Including IMSI in Send_Group_Call_End_
	approved at CP-32 CR 81r1 to 43.069 Rel-7 in CP-060276, approved at CP-32	VBS Including IMSI in Send_Group_Call_End_
	CR 81r1 to 43.069 Rel-7 in CP-060276, approved at CP-32	Including IMSI in Send_Group_Call_End_
	Rel-7 in CP-060276, approved at CP-32	Send_Group_Call_End_
	approved at CP-32	
		Signal message for V/PC
	CR 82 to 43.069	orginal message IOF VDS
		Correction to process
	Rel-7 in CP-060276,	VBS_Handling_Relay_M
	approved at CP-32	SC
	CR 86r1 to 43.069	Failure cases during
	Rel-7 in CP-060506,	VBS call establishment
	approved at CP-33	
	CR 88 to 43.069	Correction of PCH
	Rel-6 in CP-060457,	re-organisation
	approved at CP-33	notification
	CR 104 to 43.069	Definition of BSSAP
		procedure for release of
		VBS call controlling
		connections
TSI TS 100 948: "Digital cellular telecommunications	CR A025 to TS 04.68	Introduction of OTDI
		(Originator-To-
		Dispatcher Information
		into VGCS)
	CR 001 to TS 44.068	The repetition of the
		priority in the Call
		Reference IE in the
		SETUP message
	CR 002 to TS 44,068	Clarification of the
		coding of OTDI
		information in IA5 format
		Increase VGCS setup
		timeout (MS timer
	approved at CP-33	TMM-est)
TSI TS 100 949: "Digital cellular telecommunications		Introduction of OTDI
	Rel-4 in P-00-255,	(Originator-To-
	approved at SMG#32	Dispatcher Information
		into VBS)
	CR 001 to TS 44.069	The repetition of the
		priority in the Call
		Reference IE in the
		SETUP message
	CR 002 to TS 44 069	Clarification of the
		coding of OTDI
		information in IA5 format
		Increase VBS setup
		timeout (MS timer
		TMM-est)
TSI TS 100 077: "Digital callular talecommunications		
551VI 11.11 VEISION 6.3.0 REIEASE 1999)".		
	TSI TS 100 948: "Digital cellular telecommunications istem (Phase 2+) (GSM); Group Call Control (GCC) otocol (GSM 04.68 version 8.1.0 Release 1999)". or information, becoming in Rel-4 and later:         TSI TS 144 068: "Digital cellular telecommunications istem (Phase 2+); Group Call Control (GCC) protocol GPP TS 44.068)".         TSI TS 100 949: "Digital cellular telecommunications istem (Phase 2+) (GSM); Broadcast Call Control (BCC) otocol (GSM 04.69 version 8.1.0 Release 1999)". or information, becoming in Rel-4 and later:         TSI TS 144 069: "Digital cellular telecommunications istem (Phase 2+) (BSM); Broadcast Call Control (BCC) otocol (GSM 04.69 version 8.1.0 Release 1999)". or information, becoming in Rel-4 and later:         TSI TS 144 069: "Digital cellular telecommunications istem (Phase 2+); Broadcast Call Control (BCC) protocol GPP TS 44.069)".	CR 104 to 43.069 Rel-6 in CP-070131, approved at CP-35TSI TS 100 948: "Digital cellular telecommunications stem (Phase 2+) (GSM); Group Call Control (GCC) otocol (GSM 04.68 version 8.1.0 Release 1999)". or information, becoming in Rel-4 and later: TSI TS 144.068)".CR 4025 to TS 04.68 Rel-4 in P-00-255, approved at SMG#32CR 001 to TS 44.068 release 1999)". or information, becoming in Rel-4 and later: restem (Phase 2+); Group Call Control (GCC) protocol GPP TS 44.068)".CR 001 to TS 44.068 Rel-4 in NP-000449, approved at NP#09CR 002 to TS 44.068 Rel-4 in NP-010269, approved at CN#12 CR 12 to 44.068 Rel-7 in CP-060506, approved at CM#32TSI TS 100 949: "Digital cellular telecommunications stem (Phase 2+) (GSM); Broadcast Call Control (BCC) otocol (GSM 04.69 version 8.1.0 Release 1999)". or information, becoming in Rel-4 and later: TSI TS 144 069: "Digital cellular telecommunications stem (Phase 2+); Broadcast Call Control (BCC) protocol GPP TS 44.069)".CR 001 to TS 44.069 Rel-4 in NP-00255, approved at CM#32CR 001 to TS 44.069: "Digital cellular telecommunications stem (Phase 2+); Broadcast Call Control (BCC) protocol GPP TS 44.069)".CR 001 to TS 44.069 Rel-4 in NP-00249, approved at CN#9CR 002 to TS 44.069 Rel-4 in NP-010269, approved at CN#12 CR 5 to 44.069 Rel-4 in NP-010269, approved at CN#12 CR 5 to 44.069 Rel-4 in NP-010269, approved at CN#12 CR 5 to 44.069 Rel-7 in CP-060506, approved at CP-33TSI TS 100 977: "Digital cellular telecommunications stem (Phase 2+) (GSM); Specification of the Subscriber entity Module - Mobile Equipment (SIM - ME) interface

ŀ	dentification of the specifications as per clause 2.1 of EN 301 515 [1]	Applicable CRs and/or I	atest release 99 version
Index	Specification	Applicable CR	Purpose
[9]	ETSI EN 300 918: "Digital cellular telecommunications system (Phase 2+) (GSM); General on supplementary services (GSM 02.04 version 7.1.2 Release 1998)".	ETSI TS 122 004: "Digital telecommunications syste Mobile Telecommunicatio General on Supplementar (3GPP TS 22.004 version CR010 to TS 22.004 Rel-4 in SP-040283, approved at SA#24	cellular m (Phase 2+);Universal ns System (UMTS); y Services
[10]	ETSI TS 122 030: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Man-Machine Interface (MMI) of the User Equipment (UE) (3G TS 22.030 version 3.3.0 Release 1999)".	ETSI TS 122 030: "Digital telecommunications syste Universal Mobile Telecom (UMTS); Man-Machine Int Equipment (UE) (3G TS 2 Release 1999)".	cellular m (Phase 2+) (GSM); munications System terface (MMI) of the User
[11]	ETSI EN 301 702: "Digital cellular telecommunications system (Phase 2+) (GSM); User-to-User Signalling (UUS); Service description, Stage 1 (GSM 02.87 version 7.1.2 Release 1998)".	ETSI TS 122 087 "Digital telecommunications syste (GSM);Universal Mobile T System (UMTS);User-to-L (UUS);Service description version 3.1.0 Release 199	m (Phase 2+) Telecommunications Jser Signalling - Stage 1 (3G TS 22.087 39)".
[12]	ETSI TS 122 094: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Follow Me Service description - Stage 1 (3G TS 22.094 version 3.1.0 Release 1999)".	CR003 to TS 22.094 Rel-6 in SP-030699, approved at SA#22	Notify of forced erasure to initiating subscriber A
[13]	ETSI TS 100 932: "Digital cellular telecommunications system (Phase 2+) (GSM); enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 2 (3GPP TS 03.67 version 7.1.0 Release 1998)".	ETSI TS 123 067: "Digital telecommunications syste (GSM);Universal Mobile T System (UMTS); Enhance Precedence and Preempt Stage 2 (3GPP TS 23.067 version	m (Phase 2+) Telecommunications ad Multi-Level ion Service (EMLPP);
[14]	ETSI EN 301 710: "Digital cellular telecommunications system (Phase 2+) (GSM); User-to-User Signalling (UUS); Stage 2 (GSM 03.87 version 7.0.2 Release 1998)".	ETSI TS 123 087: "Digital telecommunications syste Universal Mobile Telecom (UMTS); User-to-user sign Supplementary Service - 3 (3GPP TS 23.087 version	cellular m (Phase 2+) (GSM); munications System nalling (UUS) Stage 2
[15]	ETSI TS 123 094: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Follow-Me (FM); Stage 2 (3GPP TS 23.094 version 3.2.0 Release 1999)".	CR003r1 to TS 23.094 Rel-6 in NP-030517, approved at CN#22	Notify of forced erasure to previously registered subscriber of his deregistration
[16]	ETSI EN 300 940: "Digital cellular telecommunications system (Phase 2+) (GSM); Mobile radio interface layer 3 specification (GSM 04.08 version 6.3.1 Release 1997)".	ETSI TS 124 008: "Digital telecommunications syste Mobile Telecommunicatio Mobile radio interface Lay network protocols; Stage (3GPP TS 24.008 version	m (Phase 2+); Universal ns System (UMTS); er 3 specification; Core 3 3.20.0 Release 1999).
[17]	ETSI TS 100 950: "Digital cellular telecommunications system (Phase 2+) (GSM); Mobile radio interface layer 3 supplementary services specification; Formats and coding (GSM 04.80 version 7.0.1 Release 1998)".	ETSI TS 124 080: "Digital telecommunications syste Mobile Telecommunicatio Mobile radio layer 3; supp specification; Formats and (3GPP TS 24.080 V3.7.1	m (Phase 2+); Universal ns System (UMTS); lementary service d coding
[18]	ETSI EN 301 711: "Digital cellular telecommunications system (Phase 2+) (GSM); User-to-User Signalling (UUS); Stage 3 (GSM 04.87 version 7.0.2 Release 1998)".	ETSI TS 124 087: "Digital telecommunications syste (GSM);Universal Mobile T System (UMTS); User-to- Supplementary Service - 3 (3G TS 24.087 version 3.0	cellular m (Phase 2+) elecommunications User Signalling (UUS) Stage3

Identification of the specifications as per clause 2.1 of EN 301 515 [1]		Applicable CRs and/or	r latest release 99 version
Index	Specification	Applicable CR	Purpose
[19]	ETSI TS 100 916: "Digital cellular telecommunications	ETSI TS 127 007: "Digit	al cellular
	system (Phase 2+); AT command set for GSM Mobile Equipment (ME) (3GPP TS 07.07 version 6.5.0 Release 1997)".	telecommunications sys Universal Mobile Teleco (UMTS); LTE; AT comm Equipment (UE) (3GPP TS 27.007 V3.14 CR 43 to TS 27.007 Rel-4 in TP-000144, approved at T#09 CR 044 to TS 27.007 Rel-4 in TP-000144, approved at T#09 CR 045 to TS 27.007 Rel-4 in TP-000144, approved at T#09 CR 046 to TS 27.007 Rel-4 in TP-000144, approved at T#09	mmunications System and set for User
[20]	ETSI TS 129 002: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Mobile Application Part (MAP) specification (3G TS 29.002 version 3.5.2 Release 1999)".	Mobile Telecommunicati Mobile Application Part	Extension of dial command for VBS and VGCS al cellular tem (Phase 2+); Universal ions System (UMTS);
[21]	ETSI EN 300 925: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Group Call Service (VGCS) - Stage 1 (GSM 02.68 version 7.0.2 Release 1998)". <i>For information, becoming in Rel-4 and later:</i> ETSI TS 142 068: "Digital cellular telecommunications system (Phase 2+); Voice Group Call Service (VGCS); Stage 1 (3GPP TS 42.068)".	approved at CP-32 ETSI TS 100 925: "Digit telecommunications sys Group Call Service (VGG (3GPP TS 02.68 version CR A013 to TS 02.68 Rel-4 in P-00-304, approved at SMG#32 CR 19 to 42.068 Rel-7 in SP-060026, approved at SP-31 CR 33 to 42.068 Rel-8 in SP-060774, approved at SP-34 CR 37r1 to 42.068 Rel-8 in SP-070645, approved at SP-37	tem (Phase 2+); Voice CS); Stage 1

	dentification of the specifications as per clause 2.1 of EN 301 515 [1]	Applicable CRs and/or	latest release 99 version
Index	Specification	Applicable CR	Purpose
[22]	ETSI EN 300 926: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Broadcast Service (VBS) - Stage 1 (GSM 02.69 version 8.0.1 Release 1999)". <i>For information, becoming in Rel-4 and later:</i> ETSI TS 142 069: "Digital cellular telecommunications	ETSI TS 100 926: "Digita telecommunications syste Broadcast Service (VBS); version 8.2.0 Release 199 CR A014 to TS 02.69	em (Phase 2+); Voice ; Stage 1 (3GPP TS 02.69 99)". Introduction of
	system (Phase 2+); Voice Broadcast Service (VBS); Stage 1 (3GPP TS 42.069)".	Rel-4 in P-00-304, approved at SMG#32 CR 6 to 42.069 Rel-7 in SP-060028, approved at SP-31 CR 8 to 42.069 Rel-8 in SP-060775, approved at SP-34 CR 10r1 to 42.069 Rel-8 in SP-070644,	Originator-to-dispatcher information into VBS Modification to setup to remove the need for full conditions Correction on the use of listening service subscriber Clarification of interactions with
[23]	ETSI EN 300 904: "Digital cellular telecommunications system (Phase 2+) (GSM); Bearer Services (BS) supported by a GSM Public Land Mobile Network (PLMN) (GSM 02.02 version 6.1.1 Release 1997)".	a Public Land Mobile Net	em (Phase 2+) (GSM); nmunications System ervices (BS) supported by work (PLMN) (3GPP TS
[24]	ETSI TS 100 905: "Digital cellular telecommunications system (Phase 2+) (GSM); Teleservices supported by a GSM Public Land Mobile Network (PLMN) (GSM 02.03 version 7.0.0 Release 1998)".	22.002 version 3.6.0 Rele ETSI TS 122 003: "Digita telecommunications syste Universal Mobile Telecom (UMTS); Circuit Teleservi Land Mobile Network (PL v.3.3.0 Release 1999)".	l cellular em (Phase 2+) (GSM); nmunications System ces supported by a Public
[25]	ETSI EN 300 919: "Digital cellular telecommunications system (Phase 2+) (GSM); Types of Mobile Stations (MS) (GSM 02.06 version 7.0.1 Release 1998)".		
[26]	ETSI TS 100 906: "Digital cellular telecommunications system (Phase 2+) (GSM); Mobile Stations (MS) features (GSM 02.07 version 7.1.0 Release 1998)". Note: TS 02.07 abandoned in Rel-99: the text was transferred to TS 22.001 and TS 22.101.	ETSI TS 122 001: "Digita telecommunications syste Universal Mobile Telecom (UMTS); Principles of Cirr Services supported by a I Network (PLMN) (3G TS Release 1999)". ETSI TS 122 101: "Unive Telecommunication Syste Aspects; Service Principle (3GPP TS 22 101 v.3.17.	em (Phase 2+) (GSM); nmunications System cuit Telecommunication Public Land Mobile 22.001 v.3.2.0 rsal Mobile em (UMTS); Service es
[27]	ETSI EN 300 924: "Digital cellular telecommunications system (Phase 2+) (GSM); enhanced Multi-Level Precedence and Pre-emption service (eMLPP) - Stage 1 (GSM 02.67 version 7.0.1 Release 1998)".	ETSI EN 122 067: "Digita telecommunications syste Universal Mobile Telecom (UMTS); enhanced Multi Pre emption service (eML (3G TS 22.067 version 3.	I cellular em (Phase 2+) (GSM); nmunications System Level Precedence and .PP) Stage 1 0.1 Release 1999)".
[28]	ETSI TS 100 625: "Digital cellular telecommunications system (Phase 2+) (GSM); Unstructured Supplementary Service Data (USSD) - Stage 1 (GSM 02.90 version 7.0.0 Release 1998)".	(USSD) - Stage 1 (3G TS Release 1999)".	em (Phase 2+) (GSM); nmunications System pplementary Service Data 22.090 version 3.1.0
[29]	ETSI TS 100 522: "Digital cellular telecommunications system (Phase 2+) (GSM); Network architecture (GSM 03.02 version 7.1.0 Release 1998)".	ETSI TS 123 002: "Digita telecommunications syste Mobile Telecommunication Network Architecture (3GPP TS 23.002 version	em (Phase 2+); Universal ons System (UMTS);
[30]	ETSI TR 101 631: "Digital cellular telecommunications system (Phase 2+) (GSM); Technical performance objectives (GSM 03.05 version 8.0.0 Release 1999)".		

I	dentification of the specifications as per clause 2.1 of EN 301 515 [1]	Applicable CRs and/or la	test release 99 version
Index	Specification	Applicable CR	Purpose
[31]	ETSI TS 100 549: "Digital cellular telecommunications system (Phase 2+) (GSM); Unstructured Supplementary Service Data (USSD) - Stage 2 (GSM 03.90 version 7.0.0 Release 1998)".	ETSI TS 123 090: "Digital of telecommunications syster Universal Mobile Telecomr (UMTS); Unstructured Sup (USSD) - Stage 2 (3GPP TS 23.090 V3.2.0 F	n (Phase 2+) (GSM); nunications System plementary Service Data
[32]			n (Phase 2+) (GSM); nunications System evel Precedence and PP) - Stage 3 (3GPP TS
[33]	ETSI EN 300 957: "Digital cellular telecommunications system (Phase 2+) (GSM); Unstructured Supplementary Service Data (USSD); Stage 3 (GSM 04.90 version 7.0.1 Release 1998)".	ETSI TS 124 090: "Digital of telecommunications system Universal Mobile Telecomm (UMTS); Unstructured Sup (USSD) - Stage 3 (3G TS 2 Release 1999)".	cellular n (Phase 2+) (GSM); nunications System plementary Service Data
[34]			n (Phase 2+) (GSM); nunications System CF) supplementary
[35]	ETSI EN 300 910: "Digital cellular telecommunications system (Phase 2+) (GSM); Radio transmission and reception (GSM 05.05 version 6.7.1 Release 1997)".	ETSI TS 100 910: "Digital cellular telecommunications system (Phase 2+) (GSM); Radio transmission and reception (3GPP TS 05.05 version 8.20.0 Release 1999)".	
[36]	ETSI TS 101 267: "Digital cellular telecommunications system (Phase 2+) (GSM); Specification of the SIM Application Toolkit for the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface (GSM 11.14 version 8.3.0 Release 1999)".	ETSI TS 101 267: "Digital of telecommunications syster Specification of the SIM Ap Subscriber Identity Module (SIM - ME) interface (3GPI Release 1999)".	n (Phase 2+); oplication Toolkit for the - Mobile Equipment

# 4.2 CRs applicable to TSs not yet listed as normative references of EN 301 515

Table 2 lists the CRs necessary for GSM R operation that are applicable to TSs not (yet) listed in EN 301 515 [1].

## Table 2: CRs required for GSM R applicable to TSs not yet listedas normative references of EN 301 515

	tification of the specifications impacted by RT-specific CRs not (yet) listed in clause 2.1 of EN 301 515 [1]	Additional CRs or new specification	
Index	Specification	CR identification in addition to the TS	Purpose
51	ETSI TS 100 930: "Digital cellular telecommunications system (Phase 2+); Functions related to Mobile Station (MS) in idle mode and group receive mode; (3GPP TS 03.22 v.8.7.0 Release 1999)". <i>For information, becoming in Rel-4 and later:</i> ETSI TS 143 022: "Digital cellular telecommunications system (Phase 2+); Functions related to Mobile Station (MS) in idle mode and group receive mode (3GPP TS 43.022)".	CR 24r4 to 43.022 Rel-8 in GP-071519, approved at GP-35	Enhanced Cell Reselection for VGCS
52	ETSI TS 101 503: "Digital cellular telecommunications system (Phase 2+) Mobile radio interface layer 3 specification; Radio Resource Control (RRC) Protocol (3GPP TS 04.18 v.8.27.0 Release 1999)". <i>For information, becoming in Rel-4 and later:</i> ETSI TS 144 018: "Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 specification; Radio Resource Control (RRC) protocol (3GPP TS 44.018)".	CR 659r1 to 44.018 Rel- 8 in GP-080353, approved at GP-37	Inclusion of Priority Uplink Access in Notification/NCH
		CR 685 to 44.018 Rel-8 in GP-081194, approved at GP-39	Correction to format of SI10ter message

## Annex A (informative): Bibliography

ETSI TR 121 900: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Technical Specification Group working methods (3GPP TR 21.900)".

## History

	Document history			
V1.0.0	September 2004	Publication as TR 102 281		
V2.0.0	May 2006	Publication as TR 102 281		
V2.1.0	June 2010	Publication		
V2.2.0	December 2011	Publication		
V2.2.1	October 2012	Publication		